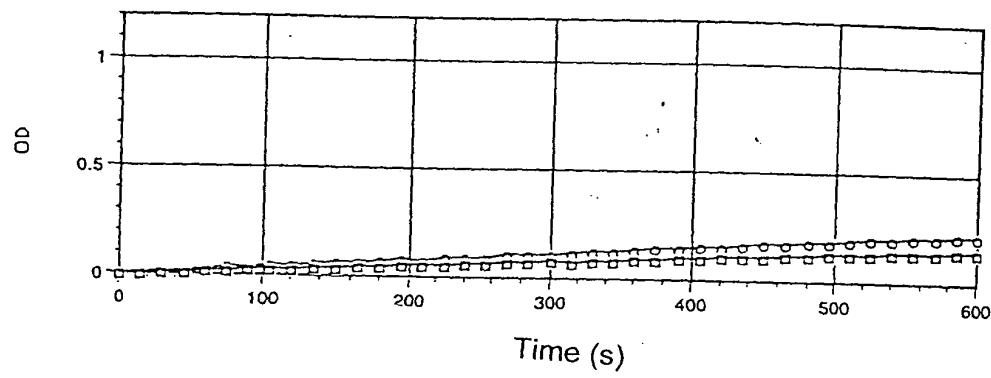


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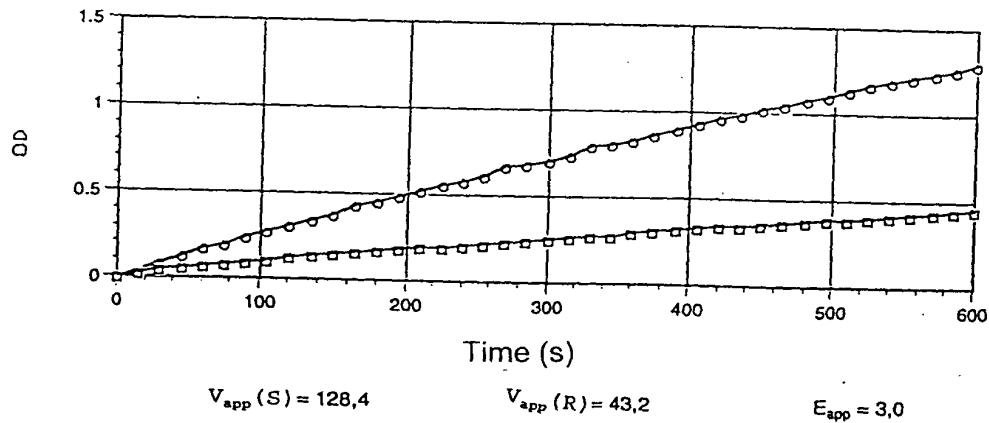
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Fig. 1

Wild type



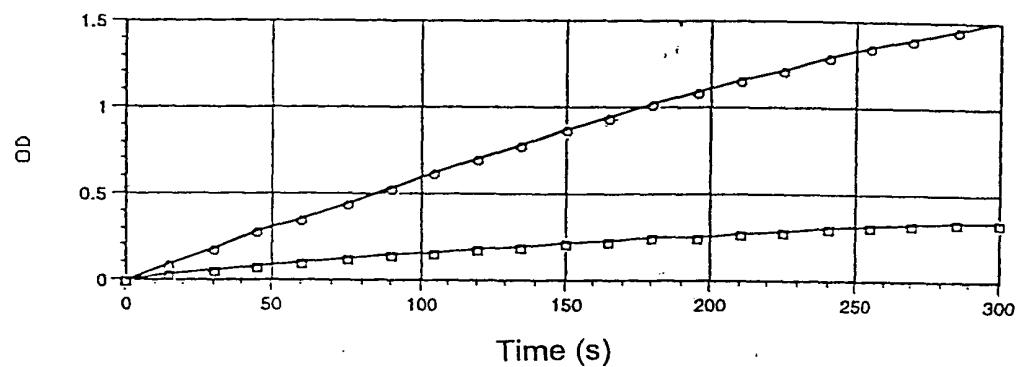
P1B 01-E4



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P2B 08-H3

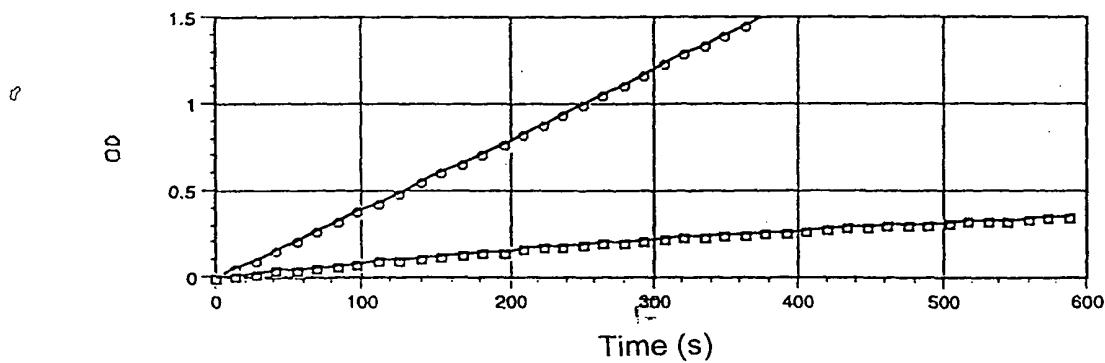


$V_{app} (S) = 310,8$

$V_{app} (R) = 67,4$

$E_{app} = 4,6$

P3B 13-D10



$V_{app} (S) = 241,1$

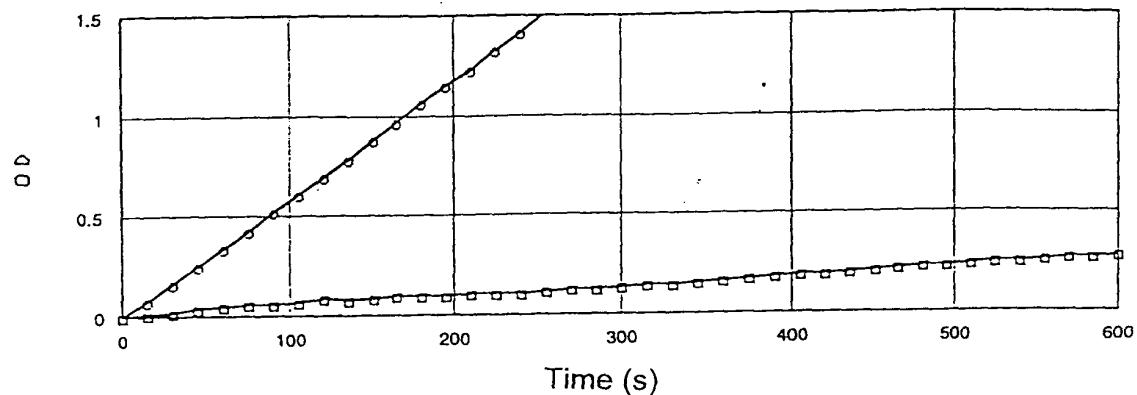
$V_{app} (R) = 35,2$

$E_{app} = 6,9$

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P4B 04-H3

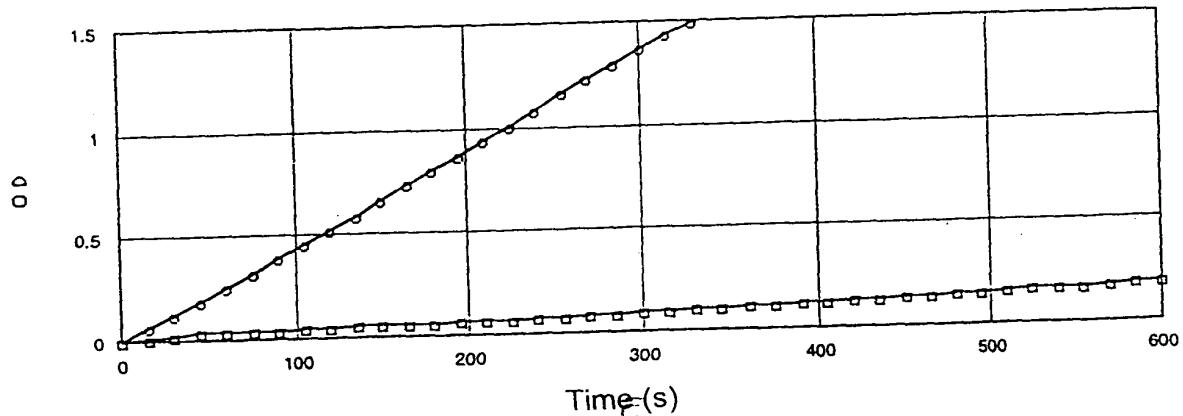


$$V_{app} (S) = 355,6$$

$$V_{app} (R) = 26,5$$

$$E_{app} = 13,4$$

P5B 14-C11



$$V_{app} (S) = 275,9$$

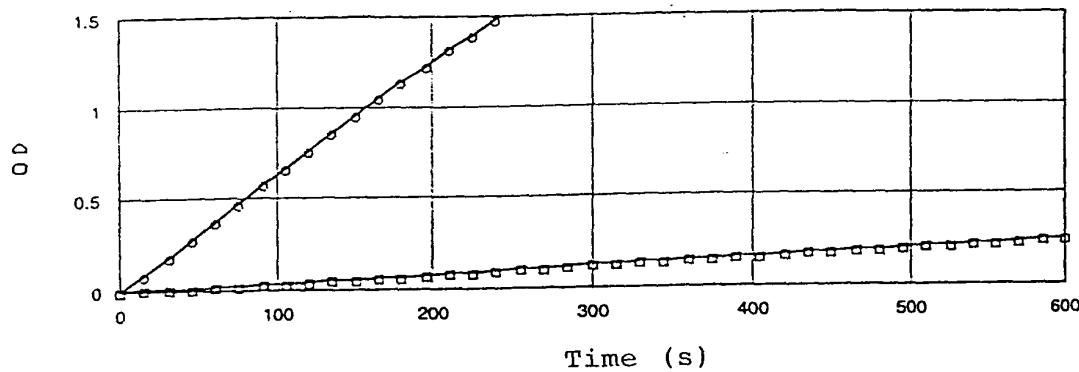
$$V_{app} (R) = 17,3$$

$$E_{app} = 15,9$$

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P4BSF 03-G10



$$V_{app} (S) = 384,7$$

$$V_{app} (R) = 25,3$$

$$E_{app} = 15,2$$

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Fig. 2

	10	
Wild type		
P1B 01-H1	G G A T C C C C C -	G G T T C T C C C C G G 19
P1B 01-E4	G G A T C C C C C C G G T T C T C C C C G G 20	
P2B 08-H3	G G A T C C C C C C G G T T C T C C C C G G 20	
P3B 13-D10	G G A T C C C C C C G G T T C T C C C C G G 20	
P4B 04-H3	G G A T C C C C C C G G T T C T C C C C G G 20	
P5B 14-C11	G G A T C C C C C C G G T T C T C C C C G G 20	
P4BSF 03-G10	G G A T C C C C C C G G T T C T C C C C G G 20	
	20	30
Wild type		
P1B 01-H1	A A G G A T T T C G G G C G A T G G C T G 39	
P1B 01-E4	A A G G A T T T C G G G C G A T G G C T G 40	
P2B 08-H3	A A G G A T T T C G G G C G A T G G C T G 40	
P3B 13-D10	A A G G A T T T C G G G C G A T G G C T G 40	
P4B 04-H3	A A G G A T T T C G G G C G A T G G C T G 40	
P5B 14-C11	A A G G A T T T C G G G C G A T G G C T G 40	
P4BSF 03-G10	A A G G A T T T C G G G G C G A T G G C T G 40	
	40	50
Wild type		
P1B 01-H1	G C A G G G A C G G C G C C C C T C G G C C 59	
P1B 01-E4	G C A G G G A C G G C G C C C C T C G G C C 60	
P2B 08-H3	G C A G G G A C G G C G C C C C T C G G C C 60	
P3B 13-D10	G C A G G G A C G G C G C C C C T C G G C C 60	
P4B 04-H3	G C A G G G A C G G C G C C C C T C G G C C 60	
P5B 14-C11	G C A G G G A C G G C G C C C C T C G G C C 60	
P4BSF 03-G10	G C A G G G A C G G C G C C C C T C G G G C C 60	
	60	70
Wild type		
P1B 01-H1	C C A T C A A A C C T G A G A T G A G A A 79	
P1B 01-E4	C C A T C A A A C C T G A G A T G A G A A 80	
P2B 08-H3	C C A T C A A A C C T G A G A T G A G A A 80	
P3B 13-D10	C C A T C A A A C C T G A G A T G A G A A 80	
P4B 04-H3	C C A T C A A A C C T G A G A T G A G A A 80	
P5B 14-C11	C C A T C A A A C C T G A G A T G A G A A 80	
P4BSF 03-G10	C C A T C A A A C C T G A G A T G A G A A 80	
	80	90
Wild type		
P1B 01-H1	C A A C A T G A A G A A G A A G T C T C 99	
P1B 01-E4	C A A C A T G A A G A A G A A G T C T C 100	
P2B 08-H3	C A A C A T G A A G A A G A A G T C T C 100	
P3B 13-D10	C A A C A T G A A G A A G A A G T C T C 100	
P4B 04-H3	C A A C A T G A A G A A G A A G T C T C 100	
P5B 14-C11	C A A C A T G A A G A A G A A G T C T C 100	
P4BSF 03-G10	C A A C A T G A A G A A G A A G T C T C 100	
	100	110
Wild type		
P1B 01-H1	T G C T C C C C C C T C G G G C C T G G C C 119	
P1B 01-E4	T G C T C C C C C C T C G G G C C T G G C C 120	
P2B 08-H3	T G C T C C C C C C T C G G G C C T G G C C 120	
P3B 13-D10	T G C T C C C C C C T C G G G C C T G G C C 120	
P4B 04-H3	T G C T C C C C C C T C G G G C C T G G C C 120	
P5B 14-C11	T G C T C C C C C C T C G G G C C T G G C C 120	
P4BSF 03-G10	T G C T C C C C C C T C G G G C C T G G C C 120	

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	120	130	
Wild type			
P1B 01-H1	A T C G G T C T C G C C T C T C T C G C	139	
P1B 01-E4	A T C G G T C T C G C C T C T C T C G C	140	
P2B 08-H3	A T C G G T C T C G C C T C T C T C G C	140	
P3B 13-D10	A T C G G T C T C G C C T C T C T C G C	140	
P4B 04-H3	A T C G G T C T C G C C T C T C T C G C	140	
P5B 14-C11	A T C G G T C T C G C C T C T C T C G C	140	
P4BSF 03-G10	A T C G G T C T C G C C T C T C T C G C	140	
	140	150	
Wild type			
P1B 01-H1	T G C C A G C C C T C' T G A T C C A G G	159	
P1B 01-E4	T G C C A G C C C T C' T G A T C C A G G	160	
P2B 08-H3	T G C C A G C C C T C' T G A T C C A G G	160	
P3B 13-D10	T G C C A G C C C T C' T G A T C C A G G	160	
P4B 04-H3	T G C C A G C C C T C' T G A T C C A G G	160	
P5B 14-C11	T G C C A G C C C T C' T G A T C C A G G	160	
P4BSF 03-G10	T G C C A G C C C T C' T G A T C C A G G	160	
	160	170	
Wild type			
P1B 01-H1	C C A G C A C C T A C A C C C A G A C C	179	
P1B 01-E4	C C A G C A C C T A C A C C C A G A C C	180	
P2B 08-H3	C C A G C A C C T A C A C C C A G A C C	180	
P3B 13-D10	C C A G C A C C T A C A C C C A G A C C	180	
P4B 04-H3	C C A G C A C C T A C A C C C A G A C C	180	
P5B 14-C11	C C A G C A C C T A C A C C C A G A C C	180	
P4BSF 03-G10	C C A G C A C C T A C A C C C A G A C C	180	
	180	190	
Wild type			
P1B 01-H1	A A A T A C C C C A T C G T G C T G G C	199	
P1B 01-E4	A A A T A C C C C C A T C G T G C T G G C	200	
P2B 08-H3	A A A T A C C C C C A T C G T G C T G G C	200	
P3B 13-D10	A A A T A C C C C C A T C G T G C T G G C	200	
P4B 04-H3	A A A T A C C C C C A T C G T G C T G G C	200	
P5B 14-C11	A A A T A C C C C C A T C G T G C T G G C	200	
P4BSF 03-G10	A A A T A C C C C C A T C G T G C T G G C	200	
	200	210	
Wild type			
P1B 01-H1	C C A C G G C A T G C T C G G C T T T C G	219	
P1B 01-E4	C C A C G G C A T G C T C G G C T T T C G	220	
P2B 08-H3	C C A C G G C A T G C T C G G C T T T C G	220	
P3B 13-D10	C C A C G G C A T G C T C G G C T T T C G	220	
P4B 04-H3	C C A C G G C A T G C T C G G C T T T C G	220	
P5B 14-C11	C C A C G G C A T G C T C G G C T T T C G	220	
P4BSF 03-G10	C C A C G G C A T G C T C G G C T T T C G	220	
	220	230	
Wild type			
P1B 01-H1	A C A A C A T C C T C G G G G T C G A C	239	
P1B 01-E4	A C A A C A T C C T C G G G G T C G A C	240	
P2B 08-H3	A C A A C A T C C T C G G G G T C G A C	240	
P3B 13-D10	A C A A C A T C C T C G G G G T C G A C	240	
P4B 04-H3	A C A A C A T C C T C G G G G T C G A C	240	
P5B 14-C11	A C A A C A T C C T C G G G G T C G A C	240	
P4BSF 03-G10	A C A A C A T C C T C G G G G T C G A C	240	

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Wild type	240	250	
P1B 01-H1	T A C T G G T T C G G C A T T T C C C C A G	259	
P1B 01-E4	T A C T G G G T T C G G C A T T T C C C C A G	260	
P2B 08-H3	T A C T G G T T C G G C A T T T C C C C A G	260	
P3B 13-D10	T A C T G G T T C G G C A T T T C C C C A G	260	
P4B 04-H3	T A C T G G G T T C G G C A T T T C C C C A G	260	
P5B 14-C11	T A C T G G T T C G G C A T T T C C C C A G	260	
P4BSF 03-G10	T A C T G G G T T C G G C A T T T C C C C A G	260	
Wild type	260	270	
P1B 01-H1	C G C C T T G C G C C G T G A C G G T G	279	
P1B 01-E4	C G C C T T G C G C C G T G A C G G T G	280	
P2B 08-H3	C G C C T T G C G C C G T G A C G G T G	280	
P3B 13-D10	C G C C T T G C G C C G T G A C G G T G	280	
P4B 04-H3	C G C C T T G C G C C G T G A C G G T G	280	
P5B 14-C11	C G C C T T G C G C C G T G A C G G T G	280	
P4BSF 03-G10	C G C C T T G C G C C G T G A C G G T G	280	
Wild type	280	290	
P1B 01-H1	C C C A G G G T C T A C G T C A C C C G A A	299	
P1B 01-E4	C C C A G G G T C T A C G T C A C C C G A A	300	
P2B 08-H3	C C C A G G G T C T A C G T C A C C C G A A	300	
P3B 13-D10	C C C A G G G T C T A C G T C A C C C G A A	300	
P4B 04-H3	C C C A G G G T C T A C G T C A C C C G A A	300	
P5B 14-C11	C C C A G G G T C T A C G T C A C C C G A A	300	
P4BSF 03-G10	C C C A G G G T C T A C G T C A C C C G A A	300	
Wild type	300	310	
P1B 01-H1	G T C A G G C C A G T T T G G A C A C C T C	319	
P1B 01-E4	G T C A G G C C A G T T T G G A C A C C T C	320	
P2B 08-H3	G T C A G G C C A G T T T G G A C A C C T C	320	
P3B 13-D10	G T C A G G C C A G T T T G G A C A C C T C	320	
P4B 04-H3	G G C A G G C C A G T T T G G A C A C C T C	320	
P5B 14-C11	G G C A G G C C A G T T T G G A C A C C T C	320	
P4BSF 03-G10	G G C A G G C C A G T T T G G A C A C C T C	320	
Wild type	320	330	
P1B 01-H1	G G A A G T T C C G C G G C G A G C A G T	339	
P1B 01-E4	G G A A G T T C C G C G G C G A G C A G T	340	
P2B 08-H3	G G A A G T T C C G C G G C G A G C A G T	340	
P3B 13-D10	G G A A G T T C C G C G G C G A G C A G T	340	
P4B 04-H3	G G A A G T T C C G C G G C G A G C A G T	340	
P5B 14-C11	G G A A G T T C C G C G G C G A G C A G T	340	
P4BSF 03-G10	G G A A G T T C C G C G G C G A G C A G T	340	
Wild type	340	350	
P1B 01-H1	T G C T G C A A C A G G T T G G A G G G A A	359	
P1B 01-E4	T G C T G C A A C A G G T T G G A G G G A A	360	
P2B 08-H3	T G C T G C A A C A G G T T G G A G G G A A	360	
P3B 13-D10	T G C T G C A A C A G G T T G G A G G G A A	360	
P4B 04-H3	T G C T G C A A C A G G T T G G A G G G A A	360	
P5B 14-C11	T G C T G C A A C A G G T T G G A G G G A A	360	
P4BSF 03-G10	T G C T G C A A C A G G T T G G A G G G A A	360	

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Wild type		360	370
P1B	01-H1	A T C G T C G C C C T C A G G C G G C C A	379
P1B	01-E4	A T C G T C G C C C T C A G G C G G C C A	380
P2B	08-H3	A T C G T C G C C C T C A G G C G G C C A	380
P3B	13-D10	A T C G T C G C C C T C A G G C G G C C A	380
P4B	04-H3	A T C G T C G C C C T C A G G C G G C C A	380
P5B	14-C11	A T C G T C G C C C T C A G G C G G C C A	380
P4BSF	03-G10	A T C G T C G C C C T C A G G C G G C C A	380
Wild type		380	390
P1B	01-H1	G C C C A A G G T C A A C C C T G A T C G	399
P1B	01-E4	G C C C A A G G T C A A C C C T G A T C G	400
P2B	08-H3	G C C C A A G G T C A A C C C T G A T C G	400
P3B	13-D10	G C C C A A G G T C A A C C C T G A T C G	400
P4B	04-H3	G C C C A A G G T C A A C C C T G A T C G	400
P5B	14-C11	G C C C A A G G T C A A C C C T G A T C G	400
P4BSF	03-G10	G C C C A A G G T C A A C C C T G A T C G	400
Wild type		400	410
P1B	01-H1	G C C A C A G G C C A C G G G C G G C C G	419
P1B	01-E4	G C C A C A G G C C A C G G G C G G C C G	420
P2B	08-H3	G C C A C A G G C C A C G G G C G G C C G	420
P3B	13-D10	G C C A C A G G C C A C G G G C G G C C G	420
P4B	04-H3	G C C A C A G G C C A C G G G C G G C C G	420
P5B	14-C11	G C C A C A G G C C A C G G G C G G C C G	420
P4BSF	03-G10	G C C A C A G G C C A C G G G C G G C C G	420
Wild type		420	430
P1B	01-H1	A C C A T T C C G C T A C G T C G C C G C	439
P1B	01-E4	A C C A T T C C G C T A C G T C G C C G C	440
P2B	08-H3	A C C A T T C C G C T A C G T C G C C G C	440
P3B	13-D10	A C C A T T C C G C T A C G T C G C C G C	440
P4B	04-H3	A C C A T T C C G C T A C G T C G C C G C	440
P5B	14-C11	A C C A T T C C G C T A C G T C G C C G C	440
P4BSF	03-G10	A C C A T T C C G C T A C G T C G C C G C	440
Wild type		440	450
P1B	01-H1	C G T A C G T T C C C G A C C T G A T C G	459
P1B	01-E4	C G T A C G T T C C C G A C C T G A T C G	460
P2B	08-H3	C G T A C G T T C C C G A C C T G A T C G	460
P3B	13-D10	C G T A C G T T C C C G A C C T G A T C G	460
P4B	04-H3	C G T A C G T T C C C G A C C T G A T C G	460
P5B	14-C11	C G T A C G T T C C C G A C C T G A T C G	460
P4BSF	03-G10	C G T A C G T T C C C G A C C T G A T C G	460
Wild type		460	470
P1B	01-H1	C T T C C G C C A C C A G G C G T C G G C	479
P1B	01-E4	C T T C C G C C A C C A G G C G T C G G C	480
P2B	08-H3	C T T C C G C C A C C A G G C G T C G G C	480
P3B	13-D10	C T T C C G C C A C C A G G C G T C G G C	480
P4B	04-H3	C T T C C G C C A C C A G G C G T C G G C	480
P5B	14-C11	C T T C C G C C A C C A G G C G T C G G C	480
P4BSF	03-G10	C T T C C G C C A C C A G G C G T C G G C	480

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Dose 240 "Hatched" 0

	480	490	
Wild type			
P1B 01-H1	G C C C C G C A C A A G G G T T C G G A		499
P1B 01-E4	G C C C C G C A C A A G G G G T T C G G A		500
P2B 08-H3	G C C C C G C A C A A G G G G T T C G G A		500
P3B 13-D10	G C C C C G C A C A A G G G G T T C G G A		500
P4B 04-H3	G C C C C G C A C A A G G G G T T C G G A		500
P5B 14-C11	G C C C C G C A C A A G G G G T T C G G A		500
P4BSF 03-G10	G C C C C G C A C A A G G G G T T C G G A		500
	500	510	
Wild type			
P1B 01-H1	C A C C G C C G A C T T C C T G C G C C		519
P1B 01-E4	C A C C G C C G A C T T C C T G C G C C		520
P2B 08-H3	C A C C G C C G A C T T C C T G C G C C		520
P3B 13-D10	C A C C G C C G A C T T C C T G C G C C		520
P4B 04-H3	C A C C G C C G A C T T C C T G C G C C		520
P5B 14-C11	C A C C G C C G A C T T C C T G C G C C		520
P4BSF 03-G10	C A C C G C C G A C T T C C T G C G C C		520
	520	530	
Wild type			
P1B 01-H1	A G A T C C C C A C C G G G T T C G G C C		539
P1B 01-E4	A G A T C C C C A C C G G G T T C G G C C		540
P2B 08-H3	A G A T C C C C A C C G G G T T C G G C C		540
P3B 13-D10	A G A T C C C C A C C G G G T T C G G C C		540
P4B 04-H3	A G A T C C C C A C C G G G T T C G G C C		540
P5B 14-C11	A G A T C C C C A C C G G G T T C G G C C		540
P4BSF 03-G10	A G A T C C C C A C C G G G T T C G G C C		540
	540	550	
Wild type			
P1B 01-E4	G G C G A G G G C A G T C C T C T C C G G		559
P2B 08-H3	G G C G A G G G C A G T C C T C T C C G G		560
P3B 13-D10	G G C G A G G G C A G T C C T C T C C G G		560
P4B 04-H3	G G C G A G G G C A G T C C T C T C C G G		560
P5B 14-C11	G G C G A G G G C A G T C C T C T C C G G		560
P4BSF 03-G10	G G C G A G G G C A G T C C T C T C C G G		560
	560	570	
Wild type			
P1B 01-H1	G C T G G T C A A C A G G C C T C G G C G		579
P1B 01-E4	G C T G G T C A A C A G G C C T C G G C G		580
P2B 08-H3	G C T G G T C A A C A G G C C T C G G C G		580
P3B 13-D10	G C T G G T C A A C A G G C C T C G G C G		580
P4B 04-H3	G C T G G T C A A C A G G C C T C G G C G		580
P5B 14-C11	G C T G G T C A A C A G G C C T C G G C G		580
P4BSF 03-G10	G C T G G T C A A C A G G C C T C G G C G		580
	580	590	
Wild type			
P1B 01-H1	C G C T G A T C A G G C T T C C T T T C C		599
P1B 01-E4	C G C T G A T C A G G C T T C C T T T C C		600
P2B 08-H3	C G C T G A T C A G G C T T C C T T T C C		600
P3B 13-D10	C G C T G A T C A G G C T T C C T T T C C		600
P4B 04-H3	C G C T G A T C A G G C T T C C T T T C C		600
P5B 14-C11	C G C T G A T C A G G C T T C C T T T C C		600
P4BSF 03-G10	C G C T G A T C A G G C T T C C T T T C C		600

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	600	610	
Wild type			
P1B 01-H1	A G C G G C A G C A C C G G T A C G C A	619	
P1B 01-E4	A G C G G C G G C A C C C G G T A C G C A	620	
P2B 08-H3	A G C G G C G G C A C C C G G T A C G C A	620	
P3B 13-D10	A G C G G C G G C A C C C G G T A C G C A	620	
P4B 04-H3	A G C G G C G G C A C C C G G T A C G C A	620	
P5B 14-C11	A G C G G C G G C A C C C G G T A C G C A	620	
P4BSF 03-G10	A G C G G C G G C A T C G G T A C G C A	620	
	620	630	
Wild type			
P1B 01-H1	G A A T T T C A C T G G G C T C G C T G G	639	
P1B 01-E4	G A A T T T C A C T G G G C T C G C T G G	640	
P2B 08-H3	G A A T T T C A C T G G G C T C G C T G G	640	
P3B 13-D10	G A A T T T A C T G G G C T C G C T G G	640	
P4B 04-H3	G A A T T T A C T G G G C T C G C T G G	640	
P5B 14-C11	G A A T T T A C T G G G C T C G C T G G	640	
P4BSF 03-G10	G A A T T T T C T G G G C T C G C T G G	640	
	640	650	
Wild type			
P1B 01-H1	A G T C G C T G A A C A G C G A G G G T	659	
P1B 01-E4	A G T C G C T G A A C A G C G A G G G T	660	
P2B 08-H3	A G T C G C T G A A C A G C G A G G G T	660	
P3B 13-D10	A G T C G C T G A A C A G C G A G G G T	660	
P4B 04-H3	A G T C G C T G A A C A G C G A G G G T	660	
P5B 14-C11	A G T C G C T G A A C A G T G A G G G T	660	
P4BSF 03-G10	A G T C G C T G A A C A G C G A G G G T	660	
	660	670	
Wild type			
P1B 01-H1	G C C G C G C G C G C T T T C A A C G C C C A A	679	
P1B 01-E4	G C C G C G C G C G C T T T C A A C G C C C A A	680	
P2B 08-H3	G C C G C G C G C G C T T T C A A C G C C C A A	680	
P3B 13-D10	G C C G C G C G C G C T T T C A A C G C C C A A	680	
P4B 04-H3	G C C G C G C G C G C T T T C A A C G C C C A A	680	
P5B 14-C11	G C C G C G C G C G C T T T C A A C G C C C A A	680	
P4BSF 03-G10	G C C G C G C G C G C T T T C A A C G C C C A A	680	
	680	690	
Wild type			
P1B 01-H1	G T A C C C G C A G G G G C A T C C C C C A	699	
P1B 01-E4	G T A C C C G C A G G G G C A T C C C C C A	700	
P2B 08-H3	G T A C C C G C A G G G G C A T C C C C C A	700	
P3B 13-D10	G T A C C C G C A G G G G C A T C C C C C A	700	
P4B 04-H3	G T A C C C G C A G G G G C A T C C C C C A	700	
P5B 14-C11	G T A C C C G C A G G G G C A T C C C C C A	700	
P4BSF 03-G10	G T A C C C G C A G G G G C A T C C C C C A	700	
	700	710	
Wild type			
P1B 01-H1	C C T C G G C C T G C G G C G A A G G C	719	
P1B 01-E4	C C T C G G C C T G C G G C G A A G G C	720	
P2B 08-H3	C C T C G G C C T G C G G C G A A G G C	720	
P3B 13-D10	C C T C G G C C T G C G G C G A A G G C	720	
P4B 04-H3	C C T C G G C C T G C G G C G A A G G C	720	
P5B 14-C11	C C T C G G C C T G C G G C G A A G G C	720	
P4BSF 03-G10	C C T C G G C C T G C G G C G A A G G C	720	

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	720	730	
Wild type			
P1B 01-H1	G C C T A C A A G G T C A A A C G G G C G T	739	
P1B 01-E4	G C C T A C A A G G T C A A A C G G G C G T	740	
P2B 08-H3	G C C T A C A A G G T C A A A C G G G C G T	740	
P3B 13-D10	G C C T A C A A G G T C A A A C G G G C G T	740	
P4B 04-H3	G C C T A C A A G G T C A A A C G G G C G T	740	
P5B 14-C11	G C C T A C A A G G T C A A A C G G G C G T	740	
P4BSF 03-G10	G C C T A C A A G G T C A A A C G G G C G T	740	
	740	750	
Wild type			
P1B 01-H1	G A G C T A T T A C T C C T G G G A G C G	759	
P1B 01-E4	G A G C T A T T A C T C C T G G G A G C G	760	
P2B 08-H3	G A G C T A T T A C T C C T G G G A G C G	760	
P3B 13-D10	G A G C T A T T A C T C C T G G G A G C G	760	
P4B 04-H3	G A G C T A T T A C T C C T G G G A G C G	760	
P5B 14-C11	G A G C T A T T A C T C C T G G G A G C G	760	
P4BSF 03-G10	G A G C T A T T A C T C C T G G G A G C G	760	
	760	770	
Wild type			
P1B 01-H1	G T T C C T C G C C G C T G A C C A A C	779	
P1B 01-E4	G T T C C T C G C C G C T G A C C A A C	780	
P2B 08-H3	G T T C C T C G C C G C T G A C C A A C	780	
P3B 13-D10	G T T C C T C G C C G C T G A C C A A C	780	
P4B 04-H3	G T T C C T C G C C G C T G A C C A A C	780	
P5B 14-C11	G T T C C T C G C C G C T G A C C A A C	780	
P4BSF 03-G10	G T T C C T C G C C G C T G A C C A A C	780	
	780	790	
Wild type			
P1B 01-H1	T T C C T C G A T C C G A G G C G A C G C	799	
P1B 01-E4	T T C C T C G A T C C G A G G C G A C G C	800	
P2B 08-H3	T T C C T C G A T C C G A G G C G A C G C	800	
P3B 13-D10	T T C C T C G A T C C G A G G C G A C G C	800	
P4B 04-H3	T T C C T C G A T C C G A G G C G A C G C	800	
P5B 14-C11	T T C C T C G A T C C G A G G C G A C G C	800	
P4BSF 03-G10	T T C C T C G A T C C G A G G C G A C G C	800	
	800	810	
Wild type			
P1B 01-H1	C T T C C T C G G C G C C T C G T C G C	819	
P1B 01-E4	C T T C C T C G G C G C C T C G T C G C	820	
P2B 08-H3	C T T C C T C G G C G C C T C G T C G C	820	
P3B 13-D10	C T T C C T C G G C G C C T C G T C G C	820	
P4B 04-H3	C T T C C T C G G C G C C T C G T C G C	820	
P5B 14-C11	C T T C C T C G G C G C C T C G T C G C	820	
P4BSF 03-G10	C T T C C T C G G C G C C T C G T C G C	820	
	820	830	
Wild type			
P1B 01-H1	T G A C C T T C A A G A A C G G G C A C C	839	
P1B 01-E4	T G A C C T T C A A G A A C G G G C A C C	840	
P2B 08-H3	T G A C C T T C A A G A A C G G G C A C C	840	
P3B 13-D10	T G A C C T T C A A G A A C G G G C A C C	840	
P4B 04-H3	T G A C C T T C A A G A A C G G G C A C C	840	
P5B 14-C11	T G A C C T T C A A G A A C G G G C A C C	840	
P4BSF 03-G10	T G A C C T T C A A G A A C G G G C A C C	840	

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	840	850	
Wild type			
P1B 01-H1	G C C A A C G A C G G C C T G G T C G G	859	
P1B 01-E4	G C C A A C G A C G G C C T G G T C G G	860	
P2B 08-H3	G C C A A C G A C G G C C T G G T C G G	860	
P3B 13-D10	G C C A A C G A C G G C C T G G T C G G	860	
P4B 04-H3	G C C A A C G A C G G C C T G G T C G G	860	
P5B 14-C11	G C C A A C G A C G G C C T G G T C G G	860	
P4BSF 03-G10	G C C A A C G A C G G C C T G G T C G G	860	
	860	870	
Wild type			
P1B 01-H1	C A C C T G C A G T T C G C A C C T G G	879	
P1B 01-E4	C A C C T G C A G T T C G C A C C T G G	880	
P2B 08-H3	C A C C T G C A G T T C G C A C C T G G	880	
P3B 13-D10	C A C C T G C A G T T C G C A C C T G G	880	
P4B 04-H3	C A C C T G C A G T T C G C A C C T G G	880	
P5B 14-C11	C A C C T G C A G T T C G C A C C T G G	880	
P4BSF 03-G10	C A C C T G C A G T T C G C A C C T G G	880	
	880	890	
Wild type			
P1B 01-H1	G C A T G G T G A T C C G G A C A A C	899	
P1B 01-E4	G C A T G G T G A T C C G G A C A A C	900	
P2B 08-H3	G C A T G G T G A T C C G G A C A A C	900	
P3B 13-D10	G C A T G G T G A T C C G G A C A A C	900	
P4B 04-H3	G C A T G G T G A T C C G G A C A A C	900	
P5B 14-C11	G C A T G G T G A T C C G G A C A A C	900	
P4BSF 03-G10	G C A T G G T G A T C C G G A C A A C	900	
	900	910	
Wild type			
P1B 01-H1	T A C C G G A T G A A C C C A C C T G G A	919	
P1B 01-E4	T A C C G G A T G A A C C C A C C T G G A	920	
P2B 08-H3	T A C C G G A T G A A C C C A C C T G G A	920	
P3B 13-D10	T A C C G G A T G A A C C C A C C T G G A	920	
P4B 04-H3	T A C C G G A T G A A C C C A C C T G G A	920	
P5B 14-C11	T A C C G G A T G A A C C C A C C T G G A	920	
P4BSF 03-G10	T A C C G G A T G A A C C C A C C T G G A	920	
	920	930	
Wild type			
P1B 01-H1	C G A G G G T G A A C C C A G G T C T T C G	939	
P1B 01-E4	C G A G G G T G A A C C C A G G T C T T C G	940	
P2B 08-H3	C G A G G G T G A A C C C A G G T C T T C G	940	
P3B 13-D10	C G A G G G T G A A C C C A G G T C T T C G	940	
P4B 04-H3	C G A G G G T G A A C C C A G G T C T T C G	940	
P5B 14-C11	C G A G G G T G A A C C C A G G T C C C T C G	940	
P4BSF 03-G10	C G A G G G T G A A C C C A G G T C C C T C G	940	
	940	950	
Wild type			
P1B 01-H1	G C C T C A C C C A G C C T G T T C G A G G	959	
P1B 01-E4	G C C T C A C C C A G C C T G T T C G A G G	960	
P2B 08-H3	G C C T C A C C C A G C C T G T T C G A G G	960	
P3B 13-D10	G C C T C A C C C A G C C T G T T C G A G G	960	
P4B 04-H3	G C C T C A C C C A G C C T G T T C G A G G	960	
P5B 14-C11	G C C T C A C C C A G C C T G T T C G A G G	960	
P4BSF 03-G10	G C C T C A C C C A G C C T G T T C G A G G	960	

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	960	970	
Wild type			
P1B 01-H1	A C C A G C C C G G T C A G C G T C T A	979	
P1B 01-E4	A C C A G C C C G G T C A G C G T C T A	980	
P2B 08-H3	A C C A G C C C G G T C A G C G T C T A	980	
P3B 13-D10	A C C A G C C C G G T C A G C G T C T A	980	
P4B 04-H3	A C C A G C C C G G T C A G C G T C T A	980	
P5B 14-C11	A C C A G C C C G G T C A G C G T C T A	980	
P4BSF 03-G10	A C C A G C C C G G T C A G C G T C T A	980	
	980	990	
Wild type			
P1B 01-H1	C C G C C A G C A C G C C A A C C G C C	999	
P1B 01-E4	C C G C C A G C A C G C C A A C C G C C	1000	
P2B 08-H3	C C G C C A G C A C G C C A A C C G C C	1000	
P3B 13-D10	C C G C C A G C A C G C C A A C C G C C	1000	
P4B 04-H3	C C G C C A G C A C G C C A A C C G C C	1000	
P5B 14-C11	C C G C C A G C A C G C C A A C C G C C	1000	
P4BSF 03-G10	C C G C C A G C A C G C C A A C C G C C	1000	
	1000	1010	
Wild type			
P1B 01-H1	T G A A G A A C G C C A G C C T G T A G	1019	
P1B 01-E4	T G A A G A A C G C C A G C C T G T A G	1020	
P2B 08-H3	T G A A G A A C G C C A G C C T G T A G	1020	
P3B 13-D10	T G A A G A A C G C C A G C C T G T A G	1020	
P4B 04-H3	T G A A G A A C G C C A G C C T G T A G	1020	
P5B 14-C11	T G A A G A A C G C C A G C C T G T A G	1020	
P4BSF 03-G10	T G A A G A A C G C C A G C C T G T A G	1020	
	1020	1030	
Wild type			
P1B 01-H1	G A C C C C G G C C G G G C C T C G G	1039	
P1B 01-E4	G A C C C C G G C C G G G C C T C G G	1040	
P2B 08-H3	G A C C C C G G C C G G G C C T C G G	1040	
P3B 13-D10	G A C C C C G G C C G G G C C T C G G	1040	
P4B 04-H3	G A C C C C G G C C G G G C C T C G G	1040	
P5B 14-C11	G A C C C C G G C C G G G C C T C G G	1040	
P4BSF 03-G10	G A C C C C G G C C G G G C C T C G G	1040	
	1040		
Wild type			
P1B 01-H1	C C C G G G C C C	1047	
P1B 01-E4	C C C G G G C C C	1049	
P2B 08-H3	C C C G G G C C C	1049	
P3B 13-D10	C C C G G G C C C	1049	
P4B 04-H3	C C C G G G C C C [G]	1050	
P5B 14-C11	C C C G G G C C C	1049	
P4BSF 03-G10	C C C G G G C C C	1049	

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